

Terminal Objectives

IV / IO Maintenance Endorsement

Terminal Objectives for the EMT-Basic IV / IO Maintenance Endorsement

The purpose of the IV / IO Maintenance Endorsement for EMT-B is to provide the EMT-B with the knowledge and skills to maintain clear intravenous fluids (D5W, D10W, LR and NS).

Patient care should always be based on patient presentation and Montana Prehospital Treatment Protocols.

FORWARD

The Montana Board of Medical Examiners (BOME) developed the EMT endorsement process to provide the local EMS medical director the ability to expand the individual EMT scope of practice. The BOME has defined the "maximum allowable" skills for each endorsement and established statewide protocols. The endorsement process consists of education and verification.

The local EMS medical director is responsible for verifying an EMT's knowledge and skills for a particular endorsement. This can be accomplished via a training program; or the medical director may take into account an EMT's previous education, skill ability or other personal knowledge to determine whether an EMT meets the endorsement knowledge and skill requirements. The local medical director is responsible for the quality of all endorsement training via direct participation and/or oversight.

The medical director cannot exceed the scope of the endorsement, but may set limits on the ambulance service or the individual EMT. As an example, the medical director might wish the local ambulance service or an individual EMT to utilize pulse oximetry but not cardiac monitoring.

The endorsement material that follows provides the knowledge and psychomotor objectives at the specific endorsement level. Some endorsements may also include sample lesson plans for use in presenting the material. The endorsements (specifically at the EMT-Intermediate and EMT-Paramedic levels) may be non-specific in certain areas (such as specific medications or routes of administration) as the Board does not intend to "practice medicine". The medical director "practices medicine" and has the ability to determine the specific's concerning the endorsement. The Board approved protocols define the extent of the local medical directors flexibility: *"...The Board authorizes the service medical director to use the Board approved protocols in their entirety or may determine to limit individual EMT providers function / practice where appropriate and in accordance with provider's abilities. However, the service medical director may not significantly alter (change the performance expectations of the EMT) or expand approved Board protocols without first seeking Board of Medical Examiners approval."* If the medical director wishes to request the Board to "significantly alter" the protocol there is a process identified in the rules for

that to occur.

The endorsement levels at the EMT-Paramedic level are slightly different than at the other levels in that all of the endorsement levels are subsets of the Critical Care endorsement. Therefore if a Critical Care endorsement is granted to an EMT-P, they have completed all of the other endorsements. This does not work in reverse though, if an EMT-P has all of the endorsement levels but Critical Care, Critical Care is not granted by default.

The endorsement process requires that the medical director complete a standardized "verification form" (certificate of completion) documenting that an individual EMT has the knowledge and skills identified at the specific endorsement level. The individual EMT then submits an application to the Board to establish the endorsement on their license. The medical director then has the option of granting permission to the individual EMT to perform the endorsement to the extent defined by the medical director. All forms and endorsement materials can be obtained from the web site; www.emt.mt.gov. Any questions or concerns can be addressed to Ken Threet at (406) 841-2359 or kthreet@mt.gov.

General description:

Allows EMT-Basic to maintain clear intravenous fluids (D5W, D10W, LR and NS)

COGNITIVE OBJECTIVES

At the completion of this unit, the EMT-B with IV/IO maintenance endorsement will be able to:

Describe the indications, equipment needed, techniques utilized, precautions, and general principles of IV / IO infusion in children and adults.

Describe disposal of contaminated items and sharps.

Differentiate between the administration rate and amount of IV fluid in a patient with controlled versus uncontrolled hemorrhage.

Differentiate between the administration of fluid in the normotensive, hypotensive, and profoundly hypotensive patient.

PSYCHOMOTOR OBJECTIVES

At the completion of this unit, the EMT-B with IV/IO maintenance endorsement will be able to:

Use universal precautions and body substance isolation (BSI) procedures

Demonstrate the procedure for discontinuing an IV / IO administration.

Demonstrate disposal of contaminated items and sharps.

LESSON PLAN: can be obtained from the EMT-I 99 or Paramedic DOT Curriculum

RECOMMENDED TIME TO COMPLETE:

4 hours for lecture and skills practice, but does not include clinical requirements.

RECOMMENDED EQUIPMENT:

BSI Equipment (gloves, gown, mask, etc)
IV Infusion Arm
IO Manikin
IV Solutions
Administration Sets
IV Extension Tubing and/or Three-way Stopcocks
IV Catheters
IO Equipment
 Catheters (child)
 FAST Unit (adult)
 Big Gun (adult)
 EZ-IO (adult)
Tape (or other securing device)
Gauze Pads (2x2, etc)
Alcohol Preps or similar substitute
Sharps Container

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OVERVIEW:

While the major purpose of this endorsement is prepare the EMT-Basic to maintain clear intravenous fluids (D5W, D10W, LR and NS), overall management of the patient receiving fluid therapy is the goal. Correct management of a patient receiving fluid therapy is the expected outcome.

VERIFICATION FOR EMT-B IV / IO MAINTENANCE ENDORSEMENT

Student Name: _____ License Number: _____

I certify that _____ is competent in the following terminal objectives regarding the EMT-Basic IV / IO Maintenance Endorsement. The course or education was conducted according to Board policies and procedures.

COGNITIVE OBJECTIVES	PSYCHOMOTOR OBJECTIVES
Describe the indications, equipment needed, techniques utilized, precautions, and general principles of IV / IO infusion in children and adults.	Use universal precautions and body substance isolation (BSI) procedures
Describe disposal of contaminated items and sharps.	Demonstrate the procedure for discontinuing an IV / IO administration.
Differentiate between the administration rate and amount of IV fluid in a patient with controlled versus uncontrolled hemorrhage.	Demonstrate disposal of contaminated items and sharps.
Differentiate between the administration of fluid in the normotensive, hypotensive, and profoundly hypotensive patient.	

Signature of Medical Director,
responsible for the Training Program

PRINTED Name

Dated

Montana Physician License Number